CLAIMS

What is claimed is:

1. In a computer system, a method for building and sizing database tables comprising:

obtaining data requirement information;

performing a diagnosis on at least one database table;

obtaining a new size for said at least one database table using a result from said diagnosis and said data requirement information;

building said at least one database table; and

performing maintenance on said at least one database table.

2. The method of claim 1 wherein said obtaining said data requirement information further comprises obtaining user input.

3. The method of claim 2 wherein said obtaining said user input further comprises providing at least one user interface for obtaining said data requirement information.

4. The method of claim 1 wherein said obtaining said data requirement information further comprises obtaining network environment information.

5.   The method of claim 1 wherein said obtaining said data requirement information further comprises obtaining information about storage devices available to support said at least one database table.

6.   The method of claim 1 wherein said obtaining said data requirement information further comprises obtaining a backup method.

7.   The method of claim 1 wherein said obtaining data requirement information further comprises obtaining a backup schedule.

8.   The method of claim 1 wherein said obtaining data requirement information further comprises obtaining at least one requirement of at least one application.

9.   The method of claim 1 wherein said performing a diagnosis on said at least one database table further comprises checking performance measures.

10.   The method of claim 9 wherein said checking performance measures comprises generating a table of current performance.

11.   The method of claim 9 wherein said checking performance measures comprises looking up performance criteria.

12.   The method of claim 11 wherein said looking up performance criteria comprises checking an error level.

13. The method of claim 12 wherein said checking said error level comprises writing at least one error message to an error log.

14. The method of claim 9 wherein said checking performance measures comprises checking whether performance is above a warning level.

15. The method of claim 14 further comprising writing a warning message to a warning log when said performance is above said warning level.

16. The method of claim 9 wherein said checking said database performance further comprises determining a minimum space available for data.

17. The method of claim 1 wherein said performing said diagnosis on said at least one database table further comprises analyzing a plurality of objects contained in said at least one data base table.

18. The method of claim 17 wherein said analyzing said plurality of objects further comprises building a list of high-risk objects.

19. The method of claim 17 wherein said analyzing said plurality of objects further comprises building a list of objects that can be fixed.

20. The method of claim 1 wherein said performing said diagnosis on said at least one database table further comprises generating at least one report on internals of said at least one database table.

21. The method of claim 1 wherein said obtaining said new size further comprises utilizing a set of formulas to compute said new size.

22. The method of claim 1 wherein said performing said maintenance further comprises generating at least one maintenance script.

23. The method of claim 1 wherein said performing said maintenance further comprises rebuilding at least one index for said at least one database table.

24. A system comprising

    a processor;

    a memory coupled to said processor;

    computer program code executed by said processor configured to:

        obtain data requirement information;

        perform a diagnosis on at least one database table;

        obtain a new size for said at least one database table using a result from said diagnosis and said data requirement information;

        build said at least one database table; and

        perform a maintenance on said at least one database table.

25.   The system of claim 24 wherein said computer program code configured to obtain said data requirement information further comprises computer program code configured to obtain user input.

26.   The system of claim 25 wherein said computer program code configured to obtain said user input further comprises computer program code configured to provide at least one interface for obtaining said data requirement information.

27.   The system of claim 24 wherein said computer program code configured to obtain said data requirement information is further configured to obtain network environment information.

28.   The system of claim 24 wherein said computer program code configured to obtain said data requirement information is further configured to obtain information about storage devices available to support said at least one database table.

29.   The system of claim 24 wherein said computer program code configured to obtain said data requirement information is further configured to obtain information about a backup method.

30.   The system of claim 24 wherein said computer program code configured to obtain said data requirement information is further configured to obtain a backup schedule.

31.   The system of claim 24 wherein said computer program code configured to obtain said data requirement information is further configured to obtain a requirement of at least one application.

32.   The system of claim 24 wherein said computer program code configured to perform a diagnosis on at least one database table further comprises computer program code configured to check database performance.

33.   The system of claim 32 wherein said computer program code configured to check said database performance further comprises computer program code configured to generate a table of current performance.

34.   The system of claim 32 wherein said computer program code configured to check said database performance further comprises computer program code configured to look up performance criteria.

35.   The system of claim 34 wherein said computer program code configured to look up said performance criteria further comprises computer program code configured to check an error level.

36.   The system of claim 35 wherein said computer program code configured to check said error level further comprises computer program code configured to write at least one error message to an error log.

37.   The system of claim 32 wherein said computer program code configured to check said database performance further comprises computer program code configured to check whether said database performance is above a warning level.

38.   The system of claim 37 further comprising computer program code configured to write a warning message to a warning log.

39.   The system of claim 32 wherein said computer program code configured to check said database performance is further configured to determine a minimum space available for data.

40.   The system of claim 24 wherein said computer program code configured to perform a diagnosis on said at least one database table is further configured to analyze a plurality of objects contained in said at least one database table.

41.   The system of claim 40 wherein said computer program code configured to analyze said plurality of objects is further configured to build a list of high-risk objects.

42.   The system of claim 40 wherein said computer program code configured to analyze said plurality of objects is further configured to build a list of objects that can be fixed.

43.   The system of claim 24 wherein said computer program code configured to perform a diagnosis on said at least one database table is further configured to generate at least one report on internals of said database.

44.   The system of claim 24 wherein said obtaining said new size further comprises utilizing a set of formulas to compute said new size.

45.   The system of claim 24 wherein said computer program code configured to perform said maintenance is further configured to rebuild at least one index for said at least one database table.

46.   The system of claim 24 wherein said computer program code configured to perform said maintenance is further configured to generate at least one maintenance script.